Claims

[c1] 1. A resin composition comprising:

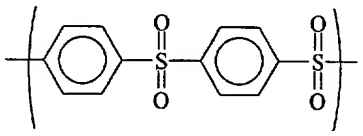
a) a polysulfone or polyethersulfone resin with a glass transition temperature of at least 180 ° C;

b) at least one fluorinated polyolefin in an amount up to about 4% by weight effective to reduce food deposit adhesion on cookware made from the composition; and

c) a fatty acid amide.

[c2] 2. The composition of Claim 1, comprising the polysulfone resin.

[c3] 3. The composition of Claim 2, wherein the polysulfone resin comprises repeating units of the formula



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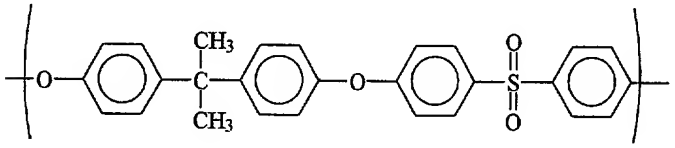
[c4] 4. The composition of Claim 1, comprising the polyethersulfone resin.

[c5] 5. The composition of Claim 4, wherein the polyethersulfone resin comprises repeating units having the formula



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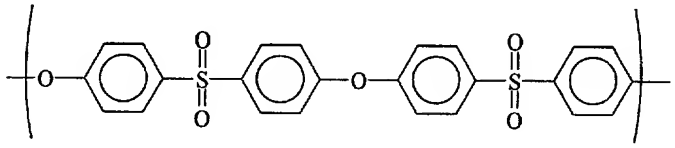

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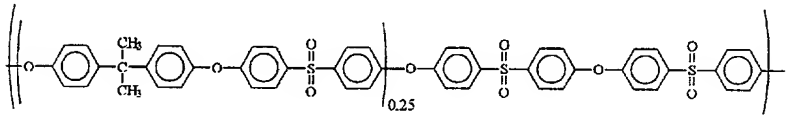

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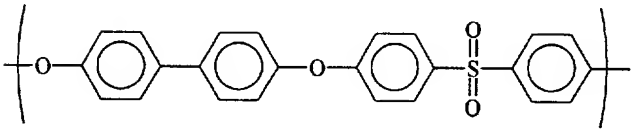

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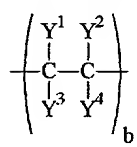
[c6] 6. The composition of Claim 1, wherein the fluorinated polyolefin is a polymer of a perfluorinated monoolefin or a partially fluorinated monoolefin.

[c7] 7. The composition of Claim 1, wherein the fluorinated polyolefin is a polymer of one or more fluorinated monomers containing ethylenic unsaturation and optionally, one or more other compounds containing ethylenic unsaturation.

[c8] 8. The composition of Claim 1, wherein the fluorinated polyolefin is at least one of poly(vinyl fluoride), poly(vinylidene fluoride), polytrifluoroethylene, polychlorotrifluoroethylene, polybromotrifluoroethylene, polytetrafluoroethylene, or copolymers thereof.

[c9] 9. The composition of Claim 1, wherein the fluorinated polyolefin is a copolymer of tetrafluoroethylene and hexafluoropropylene.

[c10] 10. The composition of Claim 1, wherein the fluorinated polyolefin is a fluorinated polyethylene comprising repeating units of the structural formula:



wherein b is an integer in excess of 50 and Y^1 to Y^4, which may be the same or different, are selected from the group consisting of hydrogen, chlorine, bromine and fluorine, with the proviso that at least one of Y^1 to Y^4 is fluorine.

[c11] 11. The composition of Claim 1, wherein the at least one fluorinated polyolefin is present at about 0.1% to about 4% by weight.

[c12] 12. The composition of Claim 1, wherein the fatty acid amide is at least one of lauramide, palmitamide, behenamide, 1,2-hydroxy stearamide, oleamide, erucamide, recinoleamide, N-stearyl stearamide, N-behenyl behenamide, N-stearyl behenamide, N-behenyl stearamide, N-oleyl oleamide, N-oleyl stearamide, N-stearyl oleamide, N-stearyl erucamide, N-oleyl palmitamide, methylol stearamide, methylol behenamide, methylene bis-stearamide, ethylene bis-isostearamide, ethylene bis-hydroxystearamide, ethylene bis-behenamide, hexamethylene bis-stearamide, hexamethylene bis-behenamide, hexamethylene bis-hydroxystearamide, N,N'-distearyl adipamide, N,N'-distearyl

sebacamide, hexamethylene bis-oleamide, N,N'-dioleyl adipamide, N,N'-dioleyl sebacamide, N,N'-ethylenebisstearamide, N,N'-ethylenebisoleamide, erucyl erucamide, or erucyl stearamide.

[c13] 13. The composition of Claim 1, wherein the fatty acid amide is at least one of behenamide, arachidamide, N,N'-ethylenebisstearamide, oleyl palmitamide, oleamide, erucamide, oleamide, N,N'-ethylenebisstearamide, N,N'-ethylenebisoleamide, stearyl erucamide, erucyl erucamide, stearyl stearamide, or erucyl stearamide.

[c14] 14. The composition of Claim 1, wherein the fatty acid amide is N,N'-ethylenebisstearamide.

[c15] 15. The composition of Claim 1, wherein the fatty acid amide is stearyl erucamide.

[c16] 16. The composition of Claim 1, comprising about 0.1 to about 5 weight percent of the fatty acid amide.

[c17] 17. The composition of Claim 1, further comprising a resin selected from the group consisting of polycarbonates, polyimides, polyetherimides, polyamides, polyamideimides, polyetherketones, aromatic copolyesters, and blends of the foregoing resins.

[c18] 18. The composition of Claim 1, further comprising at least one fluorinated siloxane or fluorinated polysiloxane.

[c19] 19. The composition of Claim 1, further comprising a mineral filler selected from the group consisting of clays, talcs, micas, barium sulfates, titanium dioxides, wollastonites, and zinc oxides.

[c20] 20. The composition of Claim 1, further comprising a food release additive selected from the group consisting of fatty acid esters, anionic surfactants, and mixtures thereof.

[c21] 21. The composition of Claim 1 further comprising at least one additive selected from the group consisting of anti-oxidants, flame retardants, drip retardants,

crystallization nucleators, dyes, pigments, colorants, reinforcing agents, fillers, stabilizers, antistatic agents, plasticizers, and lubricants.

[c22] 22. A resin composition consisting essentially of:
a polysulfone or polyethersulfone resin with a glass transition temperature of at least 180 ° C;
about 0.1 to about 4% by weight of a fluorinated polyolefin; and
about 0.1% to about 5% by weight of a fatty acid amide.

[c23] 23. A resin composition consisting essentially of:
a polysulfone or polyethersulfone resin with a glass transition temperature of at least 180 ° C;
about 0.1 to about 4% by weight of a fluorinated polyolefin;
about 0.1% to about 5% by weight of a fatty acid amide; and
up to 50% by weight of a mineral filler.

[c24] 24. An article comprising the composition of Claim 1.